

#2 318



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/075,579

DATE: 03/12/2002
TIME: 09:57:47

Input Set : N:\Crf3\RULE60\10075579.raw
Output Set: N:\CRF3\03122002\J075579.raw

1 <110> APPLICANT: Nanogen, Inc.
2 Weidenhammer, Elaine M.
3 Wang, Ling
4 Xu, Xiao
5 Heller, Michael J.
6 Kahl, Brenda F.
7 <120> TITLE OF INVENTION: IMPROVED METHODS FOR GENE EXPRESSION MONITORING ON
ELECTRONIC MICROARRAYS
8 <130> FILE REFERENCE: 256/262 Patrick S. Eagleman
10 <140> CURRENT APPLICATION NUMBER: 10/075,579
11 <141> CURRENT FILING DATE: 2002-02-12
13 <150> PRIOR APPLICATION NUMBER: US/09/710,200
14 <151> PRIOR FILING DATE: 2000-11-09
17 <160> NUMBER OF SEQ ID NOS: 73
18 <170> SOFTWARE: PatentIn version 3.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 49
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
24 <220> FEATURE:
25 <221> NAME/KEY: modified_base
26 <222> LOCATION: (1)..(1)
27 <223> OTHER INFORMATION: Biotinylated
28 <400> SEQUENCE: 1
29 taatacgaact cactataggg agacacagaa ctggatgttgc tgctggag 49
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 20
33 <212> TYPE: DNA
34 <213> ORGANISM: Homo sapiens
35 <220> FEATURE:
36 <221> NAME/KEY: modified_base
37 <222> LOCATION: (1)..(1)
38 <223> OTHER INFORMATION: Biotinylated
39 <400> SEQUENCE: 2
40 catgaacacgt tcaatcttct 20
42 <210> SEQ ID NO: 3
43 <211> LENGTH: 21
44 <212> TYPE: DNA
45 <213> ORGANISM: Homo sapiens
46 <400> SEQUENCE: 3
47 ggaaggtgcc catgccagag a 21
49 <210> SEQ ID NO: 4
50 <211> LENGTH: 48
51 <212> TYPE: DNA

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/075,579

DATE: 03/12/2002
TIME: 09:57:47

Input Set : N:\Crf3\RULE60\10075579.raw
Output Set: N:\CRF3\03122002\J075579.raw

52 <213> ORGANISM: Homo sapiens
53 <220> FEATURE:
54 <221> NAME/KEY: modified_base
55 <222> LOCATION: (1)..(1)
56 <223> OTHER INFORMATION: Biotinylated
57 <400> SEQUENCE: 4
58 taatacgact cactataggg agagctgcct tcaaggggga ttctggag 48
60 <210> SEQ ID NO: 5
61 <211> LENGTH: 24
62 <212> TYPE: DNA
63 <213> ORGANISM: Homo sapiens
64 <400> SEQUENCE: 5
65 agtttctcat tggtgtcctt atcc 24
67 <210> SEQ ID NO: 6
68 <211> LENGTH: 20
69 <212> TYPE: DNA
70 <213> ORGANISM: Homo sapiens
71 <220> FEATURE:
72 <221> NAME/KEY: modified_base
73 <222> LOCATION: (1)..(1)
74 <223> OTHER INFORMATION: Biotinylated
75 <400> SEQUENCE: 6
76 tggttacacag cagggggcct 20
78 <210> SEQ ID NO: 7
79 <211> LENGTH: 48
80 <212> TYPE: DNA
81 <213> ORGANISM: Homo sapiens
82 <220> FEATURE:
83 <221> NAME/KEY: modified_base
84 <222> LOCATION: (1)..(1)
85 <223> OTHER INFORMATION: Biotinylated
86 <400> SEQUENCE: 7
87 taatacgact cactataggg agacggccaa catgctcagg gaacaggt 48
89 <210> SEQ ID NO: 8
90 <211> LENGTH: 25
91 <212> TYPE: DNA
92 <213> ORGANISM: Homo sapiens
93 <220> FEATURE:
94 <221> NAME/KEY: modified_base
95 <222> LOCATION: (1)..(1)
96 <223> OTHER INFORMATION: Biotinylated
97 <400> SEQUENCE: 8
98 caaacatttt gaagagagac cgtcg 25
100 <210> SEQ ID NO: 9
101 <211> LENGTH: 23
102 <212> TYPE: DNA
103 <213> ORGANISM: Homo sapiens
104 <400> SEQUENCE: 9
105 ttttttttcg ttggccctca gcc 23

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/075,579

DATE: 03/12/2002

TIME: 09:57:47

Input Set : N:\Crf3\RULE60\10075579.raw
 Output Set: N:\CRF3\03122002\J075579.raw

```

107 <210> SEQ ID NO: 10
108 <211> LENGTH: 21
109 <212> TYPE: DNA
110 <213> ORGANISM: Homo sapiens
111 <400> SEQUENCE: 10
112     tgcccaggat tgattcacag g          21
114 <210> SEQ ID NO: 11
115 <211> LENGTH: 20
116 <212> TYPE: DNA
117 <213> ORGANISM: Homo sapiens
118 <400> SEQUENCE: 11
119     aggccagaag gaatgtatggg          20
121 <210> SEQ ID NO: 12
122 <211> LENGTH: 20
123 <212> TYPE: DNA
124 <213> ORGANISM: Homo sapiens
125 <400> SEQUENCE: 12
126     ctaagcccaa agtgtggatc          20
128 <210> SEQ ID NO: 13
129 <211> LENGTH: 53
130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapiens
132 <400> SEQUENCE: 13
133     gaaattaata cgactcacta tagggagaac cttttctca ggacctctgg agg      53
135 <210> SEQ ID NO: 14
136 <211> LENGTH: 24
137 <212> TYPE: DNA
138 <213> ORGANISM: Homo sapiens
139 <220> FEATURE:
140 <221> NAME/KEY: modified_base
141 <222> LOCATION: (1)..(1)
142 <223> OTHER INFORMATION: Biotinylated
143 <400> SEQUENCE: 14
144     acagaggtcc tgagaaaagg gtct          24
146 <210> SEQ ID NO: 15
147 <211> LENGTH: 52
148 <212> TYPE: DNA
149 <213> ORGANISM: Homo sapiens
150 <220> FEATURE:
151 <221> NAME/KEY: modified_base
152 <222> LOCATION: (1)..(1)
153 <223> OTHER INFORMATION: Biotinylated
154 <400> SEQUENCE: 15
155     taatacgact cactataggg agactatgaa tcatttgaag aacttactgg ag      52
157 <210> SEQ ID NO: 16
158 <211> LENGTH: 20
159 <212> TYPE: DNA
160 <213> ORGANISM: Homo sapiens
161 <220> FEATURE:

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/075,579

DATE: 03/12/2002
TIME: 09:57:47

Input Set : N:\Crf3\RULE60\10075579.raw
Output Set: N:\CRF3\03122002\J075579.raw

```

162 <221> NAME/KEY: modified_base
163 <222> LOCATION: (1)..(1)
164 <223> OTHER INFORMATION: Biotinylated
165 <400> SEQUENCE: 16
166 ctgcagacat ttcctttct 20
168 <210> SEQ ID NO: 17
169 <211> LENGTH: 23
170 <212> TYPE: DNA
171 <213> ORGANISM: Homo sapiens
172 <400> SEQUENCE: 17
173 gcatctggcc gaggctttc tac 23
175 <210> SEQ ID NO: 18
176 <211> LENGTH: 23
177 <212> TYPE: DNA
178 <213> ORGANISM: Homo sapiens
179 <400> SEQUENCE: 18
180 gttcgacagt cagccgcattc ttc 23
182 <210> SEQ ID NO: 19
183 <211> LENGTH: 23
184 <212> TYPE: DNA
185 <213> ORGANISM: Homo sapiens
186 <400> SEQUENCE: 19
187 tgatgcccccc atgttcgtca tgg 23
189 <210> SEQ ID NO: 20
190 <211> LENGTH: 22
191 <212> TYPE: DNA
192 <213> ORGANISM: Homo sapiens
193 <400> SEQUENCE: 20
194 cttccaggag cgagatccct cc 22
196 <210> SEQ ID NO: 21
197 <211> LENGTH: 51
198 <212> TYPE: DNA
199 <213> ORGANISM: Homo sapiens
200 <400> SEQUENCE: 21
201 gtaatacgtac tcactatagg gcggggtgct aagcagttgg tggtgctgga g 51
203 <210> SEQ ID NO: 22
204 <211> LENGTH: 26
205 <212> TYPE: DNA
206 <213> ORGANISM: Homo sapiens
207 <220> FEATURE:
208 <221> NAME/KEY: modified_base
209 <222> LOCATION: (1)..(1)
210 <223> OTHER INFORMATION: Biotinylated
211 <400> SEQUENCE: 22
212 caggcctcaag atcatcagca atgcct 26
214 <210> SEQ ID NO: 23
215 <211> LENGTH: 54
216 <212> TYPE: DNA
217 <213> ORGANISM: Homo sapiens

```

RAW SEQUENCE LISTING DATE: 03/12/2002
PATENT APPLICATION: US/10/075,579 TIME: 09:57:47

Input Set : N:\Crf3\RULE60\10075579.raw
Output Set: N:\CRF3\03122002\J075579.raw

```
218 <220> FEATURE:  
219 <221> NAME/KEY: modified_base  
220 <222> LOCATION: (1)..(1)  
221 <223> OTHER INFORMATION: Biotinylated  
222 <400> SEQUENCE: 23  
223     taatacgact cactataggg agactcaagg gcatcctggg ctacactgga gcac  
225 <210> SEQ ID NO: 24  
226 <211> LENGTH: 25  
227 <212> TYPE: DNA  
228 <213> ORGANISM: Homo sapiens  
229 <400> SEQUENCE: 24  
230     gaggtccacc accctgtgc tgtag  
232 <210> SEQ ID NO: 25  
233 <211> LENGTH: 29  
234 <212> TYPE: DNA  
235 <213> ORGANISM: Homo sapiens  
236 <220> FEATURE:  
237 <221> NAME/KEY: modified_base  
238 <222> LOCATION: (1)..(1)  
239 <223> OTHER INFORMATION: Biotinylated  
240 <400> SEQUENCE: 25  
241     gttgaagtca gaggagacca cctgggtgct  
243 <210> SEQ ID NO: 26  
244 <211> LENGTH: 47  
245 <212> TYPE: DNA  
246 <213> ORGANISM: Homo sapiens  
247 <400> SEQUENCE: 26  
248     taatacgact cactataggg agaggaataa ccctgcagaa actggag  
250 <210> SEQ ID NO: 27  
251 <211> LENGTH: 24  
252 <212> TYPE: DNA  
253 <213> ORGANISM: Homo sapiens  
254 <400> SEQUENCE: 27  
255     .ccctcccccc aaaaacaaca atga  
257 <210> SEQ ID NO: 28  
258 <211> LENGTH: 20  
259 <212> TYPE: DNA  
260 <213> ORGANISM: Homo sapiens  
261 <220> FEATURE:  
262 <221> NAME/KEY: modified_base  
263 <222> LOCATION: (1)..(1)  
264 <223> OTHER INFORMATION: Biotinylated  
265 <400> SEQUENCE: 28  
266     cctggctgt tttggcatct  
268 <210> SEQ ID NO: 29  
269 <211> LENGTH: 23  
270 <212> TYPE: DNA  
271 <213> ORGANISM: Homo sapiens  
272 <400> SEQUENCE: 29
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/075,579

DATE: 03/12/2002

TIME: 09:57:48

Input Set : N:\Crf3\RULE60\10075579.raw
Output Set: N:\CRF3\03122002\J075579.raw